Overview of SYBAC Meeting – 3/8/16

SYBAC Students present:
Caleb Beerbower, Southeast Polk HS
Brent Brain, Muscatine
Gabe Golberg, Mount Vernon HS
Austin Kallemeyn, Sioux Center Community HS
Aaron Mark, Burlington HS
Zach Mass, Treynor Community HS
Bryce Snell, Ballard HS
Brookelyn Wahlert, CAM HS
Stephanie Lapointe, Newman Catholic HS

SYBAC Students Absent:
Kaylee Daniels, Oskaloosa HS
Hunter Werner, Louisa-Muscatine Jr./Sr. Schools

Discussion: *Ric Lumbard* chaired the discussion.

Discussions regarding what the students have learned.

- Having the experiences, hearing the topics, having the connections and knowledge has been a benefit.
- Looking into the cyber security topics (seeing the video wall). Also using the video conferencing link is helpful for the future.
- Like hearing everyone's technology opinions.
- What has impacted me is hearing about different broadband connectivity around the state.
- Hearing the new ideas and topics that we have each month. Talking about the various issues with these peers.
- All the topics this group talks about are cool. Nice to have a tech savvy group.
- I like having the intelligent conversation about technology.
- It is mind-blowing how fragile our security is for our data infrastructure.

Interactive student conservations:

Cell phone discussion – A security discussion about cell phones. Information was provided about encryption apps. Vulnerabilities seem to come from calling or texting. A lot of people are connecting over Internet base services. Need to be concerned about cellular and data vulnerabilities.
- Individuals should check cell phone apps.
- People download apps, but they don't know the permissions behind the app.
- Location services cause issues too.
    o FitBit has location information incorporated into the app.
- iPhone security – Maybe we should start branching into security applications for phones.
    o Not aware of user security software for phones, needs to be similar to antivirus for computers.
- FindMyFriend app – similar to *Find my iPhone*. People download app and can tell friends their code or username and they can locate their friends.
- TalkingTom app - Tom repeats everything said with a funny voice. Security issues are that individuals can hack into a users' camera.
- StageFright Vulnerability - Stagefright is the collective name for a group of software bugs (or more specifically backdoors), that affect versions 2.2 and newer of the Android operating system, allowing an attacker to perform arbitrary operations on the victim device through remote code execution and privilege escalation.
    o https://en.wikipedia.org/wiki/Stagefright_(bug)

SYBAC will meet monthly between October – May   https://icn.iowa.gov/benefiting-iowans/sybac

Halo Lenses Price Discussion – The product that is released is the developer's unit, this is not the consumer unit. It is a pre-release version.

Discussion about augmented reality.

Millimeter Wave Signal Article - a wireless signal that operates off of the usual radio wave spectrums of 2.4GHz and, more recently, 5GHz. These human-sized devices will be mounted on buildings and in other high-traffic areas within major metropolitan regions – think cellular towers. Planning to be deployed in the Boston area.

> http://www.techradar.com/us/news/internet/broadband/the-folks-behind-aereo-unveil-starry-a-new-reason-for-cable-giants-to-get-scared-1313859

Google Pilots HandsFree Paying System - HandsFree is a new app from Google that allows a person to make in-store payments without reaching for the phone or wallet. Currently running a limited public pilot in a small number of stores in the South Bay.

> https://get.google.com/handsfree/#?modal_active=none

Question to the students - If you could design anything what would it be?
- Modular video card, because it would be nice to upgrade just one piece instead of purchasing a whole card.
- Improving cars technology, to assist in driving and prevent accidents.
- Designs a terahertz computer chip, for a faster computer.
  - Terahertz is just time, how long does it take to get there.
- A car that runs on batteries instead of gas. A battery car that doesn't need to be charged, because it has sustaining power.
- Seeing the future and going back to the past. (Time travel.)
  - People believe that time can be moved and affected by gravity.